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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,819	11/30/2006	Richard Beliveau	067043-5005	7191
9629 7590 02/19/2010 MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE NW			EXAMINER	
			AFREMOVA, VERA	
WASHINGTON, DC 20004			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/595.819 BELIVEAU ET AL. Office Action Summary Examiner Art Unit Vera Afremova 1657 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 10 December 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-13.19.20 and 23-25 is/are pending in the application. 4a) Of the above claim(s) 1-13 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 19, 20, 23-25 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/06)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

DETAILED ACTION

Claims 19, 20 and 23 as amended and new claims 24 and 25 (12/10/2009) are under examination in the instant office action.

Claims 1-13 were withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to nonelected invention(s), there being no allowable generic or linking claim.

Applicant timely traversed the restriction requirement in the reply filed on 3/26/2009.

Claim Rejections - 35 USC § 112

Claims 19, 20 and 23 as amended and new claims 24 and 25 remain/are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 19 as amended remains indefinite with respect to the amended phrase "a mixture of bacterial strains, L. acidophilus and L. casei,". The bacterial strains and bacterial species are different entities. Thus, it is uncertain whether the claimed mixture is intended for bacterial strains that are solely selected from the bacterial species L. acidophilus and L. casei; or, whether the mixture would additionally include some bacterial strains outside of the bacterial species L. acidophilus and L. casei.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an Application/Control Number: 10/595,819

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international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 19, 20, 23 as amended and new claim 25 remain/are rejected under 35

U.S.C. 102(e) as being anticipated by US 6,491,956 (Heo et al.).

Claims are directed to a method for prevention or treatment of an angiogenesis dependant disorder, wherein the method comprising one active step of administering to a mammal an effective amount of a lactic composition comprising a mixture of bacterial strains selected from Lactobacillus acidophilus and Lactobacillus casei and whole broth of said mixture. The presently claimed angiogenesis dependant disorders retinopathy, infantile haemangioma, rheumatoid arthritis, psoriasis and post-angioplasty restenosis. Some claims are further to the mammal being a human. Some claims are further to oral administration of the composition.

Some claims are further to incorporation of fermented milk proteins into composition.

US 6,491,956 (Heo et al.) teaches a method for prevention or treatment of *Helicobacter* infection related disorders including duodenal ulcers (entire document including examples 10, 11 15 and 16). The cited method comprising one active step of oral administration to mammals including mice and humans an effective amount of a milk product fermented by a combination of *Lactobacillus acidophilus* with *Lactobacillus casei* that is "a mixture of bacterial strains selected from *Lactobacillus acidophilus* and *Lactobacillus casei* and whole broth of said mixture" within the meaning of the claims. Prevention and/or treatment of duodenal ulcers are explicitly acknowledged by the cited reference (col. 17, line 34, for example) and the duodenal ulcer is an angiogenesis dependant disorder accordingly to the applicants' definitions (specification page 9, lines 15-20). With respect to other specific disorders recited in the claims it is noted that the claimed method does not require that the patient is necessarily has or diagnosed with these

specific disorders. The cited method comprises same one active step of administering same lactic composition to a generic patient as required by the claimed method and, thus, the effects of practicing identical protocols are reasonably expected to be the same.

Therefore, the cited reference is still considered to anticipate the presently claimed invention.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 19, 20, 23 as amended and new claims 24 and 25 remain/are rejected under 35 U.S.C. 103(a) as being unpatentable over US 6,491,956 (Heo et al.), Konturek et al. (Regulatory Peptides. 2000, Vol. 93, No. 1-3, pages 13-19) and WO 03/045405 (IDS reference).

Claims are directed to a method for prevention or treatment of an angiogenesis dependant disorder, wherein the method comprising one active step of administering to a mammal an effective amount of a lactic composition comprising a mixture of bacterial strains selected from Lactobacillus acidophilus and Lactobacillus casei and whole broth of said mixture. The presently claimed angiogenesis dependant disorders retinopathy, infantile haemangioma, rheumatoid arthritis, psoriasis and post-angioplasty restenosis. Some claims are further to the mammal being a human. Some claims are further to oral administration of the composition.

Some claims are further to incorporation of fermented milk proteins into composition.

US 6,491,956 (Heo et al.) teaches a method for prevention or treatment of *Helicobacter* infection related disorders including duodenal ulcers (entire document including examples 10, 11 15 and 16). The cited method comprising one active step of oral administration to mammals including mice and humans an effective amount of a milk product fermented by a combination of Lactobacillus acidophilus with Lactobacillus casei that is "a mixture of bacterial strains selected from Lactobacillus acidophilus and Lactobacillus casei and whole broth of said mixture" within the meaning of the claims. Prevention and/or treatment of duodenal ulcers are explicitly acknowledged by the cited patent US 6,491,956 (col. 17, line 34, for example) and the duodenal ulcer is an angiogenesis dependant disorder accordingly to the applicants' definitions (specification page 9, lines 15-20). The cited patent US 6,491,956 (Heo et al.) is silent with respect to other specific angiogenesis dependant disorders that are recited in the claims. However, it is well known that Helicobacter infection is accompanied by inflammation and angiogenesis as adequately evidenced by the reference by Konturek et al. (see abstract, for example). Thus, the patients of US 6,491,956 (Heo et al.) would be reasonably considered by one of skill in the art as being at the very least at risk of developing additional angiogenesis dependant disorders. Therefore, the US 6,491,956 (Heo et al.) method of administering a milk product fermented by a combination of Lactobacillus acidophilus with Lactobacillus casei would be an obvious variant for at least preventing, if not treating, other and/or additional angiogenesis dependant disorders as encompassed by the instant claims.

WO 03/045405 is relied for the teaching about using combination of strains belonging to Lactobacillus acidophilus and Lactobacillus casei in compositions and methods for preventing and treating cancer and tumor growth (entire document including abstract) and the tumor is an Application/Control Number: 10/595,819

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angiogenesis dependant disorder accordingly to the applicants' definitions (specification page 9, lines 15-20). WO 03/045405 also teaches the use of a particular strain *Lactobacillus acidophilus* CNCM I-1492 (page 34, par. 1) in compositions and methods for preventing and treating tumor growth that is an angiogenesis dependant disorder.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the claimed invention was made to administer a combed *Lactobacillus acidophilus* and *Lactobacillus casei* product with a reasonable expectation of success in prevention or treatment of angiogenesis dependant disorders because a combined *Lactobacillus acidophilus* with *Lactobacillus casei* products have been known and used for preventing and treating angiogenesis dependant disorders such as cancer and tumor growth (WO 03/045405) as well as for prevention or treatment of *Helicobacter* infection related disorders including inflammation and angiogenesis and tumor growth (US 6,491,956 (Heo et al.) and Konturek et al.). Thus, the claimed invention as a whole was clearly *prima facie* obvious, especially in the absence of evidence to the contrary.

The claimed subject matter fails to patentably distinguish over the state art as represented be the cited references. Therefore, the claims are properly rejected under 35 USC § 103.

Response to Arguments

Applicant's arguments filed 12/10/2009 have been fully considered but they are not persuasive.

With regard to claim rejection under 35 U.S.C. 112, second paragraph, and with respect to the claimed phrase "whole broth" the rejection has been withdraw since applicants argue that

specification provides definitions on page 7, lines 1-3. However, it is noted that definitions of "broth" are broad and they encompass a generic liquid or a liquid with nutrients. Thus, the "whole both" as claimed does not necessary mean that the "lactic composition" would necessary include fermentation products of bacterial strains. With regard to the phrase "bacterial strains, L. acidophilus and L. casei," it remains uncertain as claimed whether bacterial strains selected from other than L. acidophilus and L. casei bacterial species would be included. It is suggested to follow definitions and Markush group phrasing as on specification page 7, lines 10-15, for example: "a bacterial strain selected from the group consisting of L. acidophilus and L. casei..."

With regard to the claim rejection under 35 U.S.C. 102(e) as being anticipated by US 6,491,956 (Heo et al.) applicants argue that the cited patent does not teach a method for prevention or treatment of an angiogenesis dependant disorders recited in claim 19. This argument has no persuasive grounds because that claimed method is directed to an intended effect of oral administration of a lactic composition with *Lactobacillus acidophilus* and *Lactobacillus casei* products. The claimed method recites a generic patent who is not necessarily diagnosed with the specific angiogenesis dependant disorders recited in claim 19. The cited method of US 6,491,956 (Heo et al.) comprises same one active step of administering same lactic composition to a generic patient as required by the claimed method and, thus, the effects of practicing identical protocols are reasonably expected to be the same. Therefore, the cited reference US 6,491,956 (Heo et al.) is still considered to anticipate the presently claimed invention.

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With regard to claim rejection under 35 U.S.C. 103(a) applicants argue that the cited references do not teach a method for prevention or treatment of an angiogenesis dependant disorders recited in claim 19. This argument is not found persuasive because the cited prior art teaches and suggests beneficial effect of oral administration of a lactic composition with Lactobacillus acidophilus and Lactobacillus casei products with regard to prevention and treatment of undesirable angiogenesis or angiogenesis dependant disorders. Applicants also argue that the cited prior art does not teach strain CNCM I-1492. Upon review of the cited prior art it is not found true. WO 03/045405 also teaches the use of a particular strain Lactobacillus acidophilus CNCM I-1492 (page 34, par. 1) in compositions and methods for preventing and treating tumor growth that is an angiogenesis dependant disorder.

No claims are allowed.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Vera Afremova whose telephone number is $(571)\ 272\text{-}0914$. The

examiner can normally be reached from Monday to Friday from 9.30 am to 6.00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jon P. Weber, can be reached at (571) 272-0925.

The fax phone number for the TC 1600 where this application or proceeding is assigned

is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Technology center 1600, telephone number is (571) 272-1600.

Vera Afremova

February 12, 2010

/Vera Afremova/

Primary Examiner, Art Unit 1657